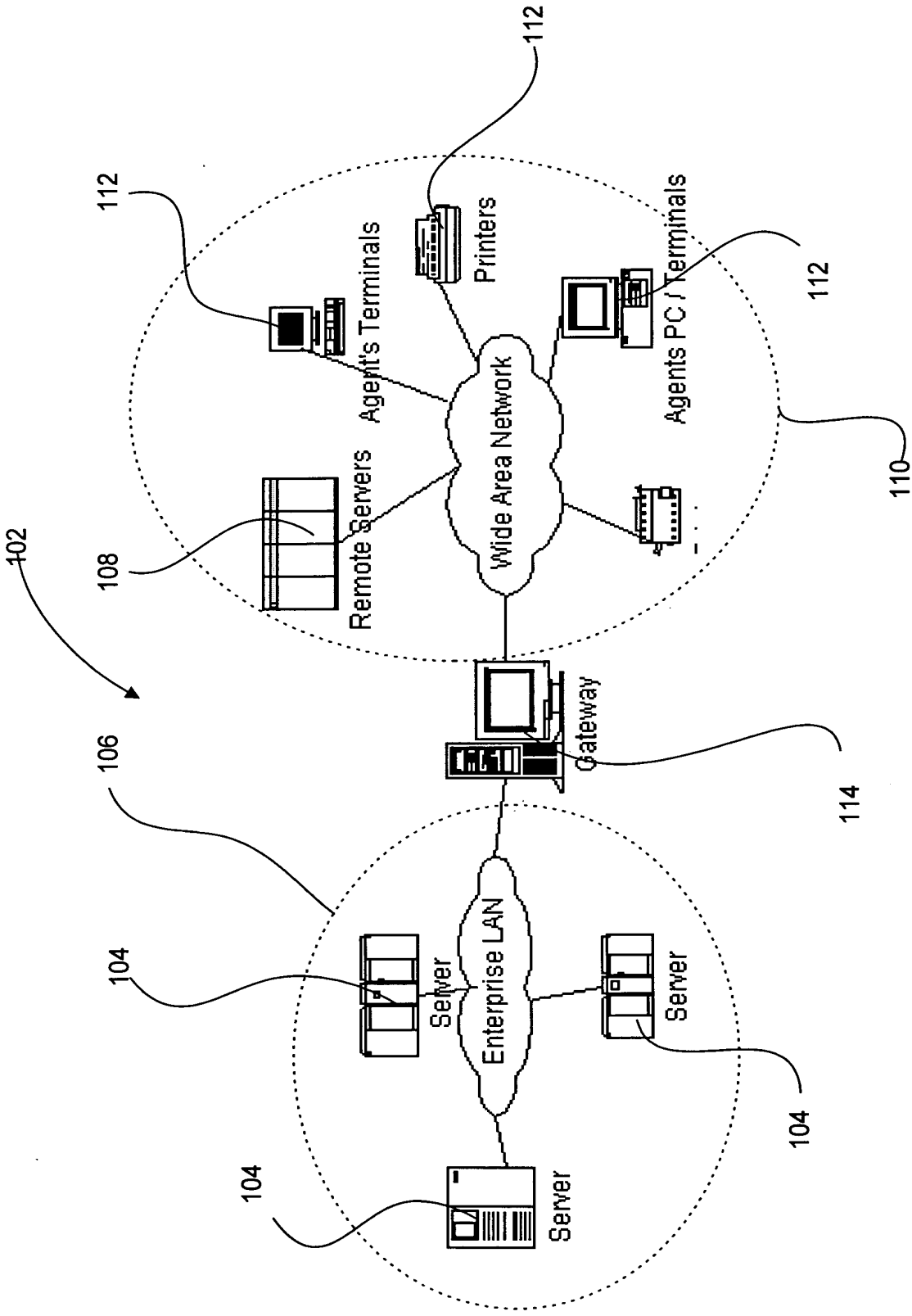

Figure 1 PRIOR ART

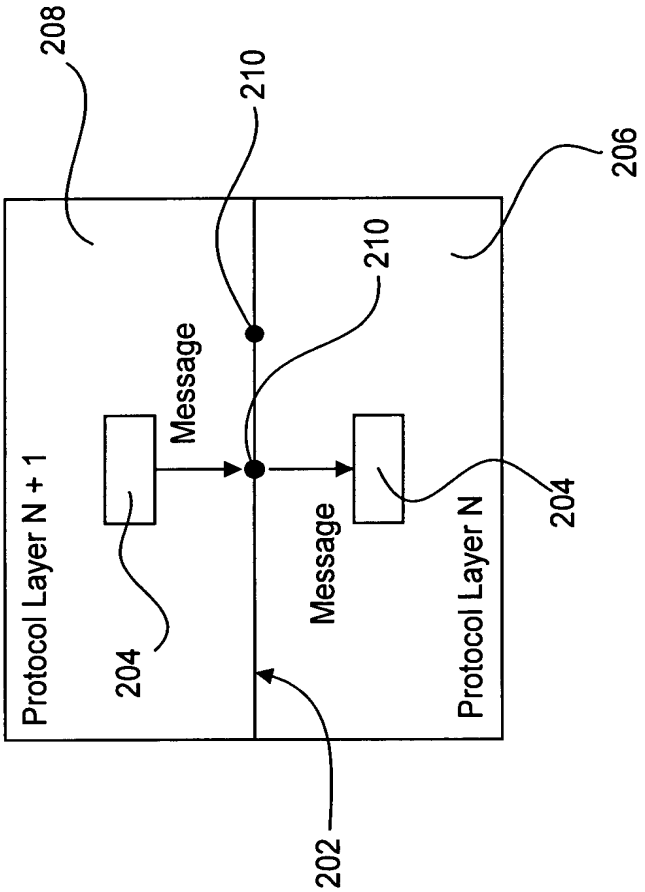

Figure 2 PRIOR ART

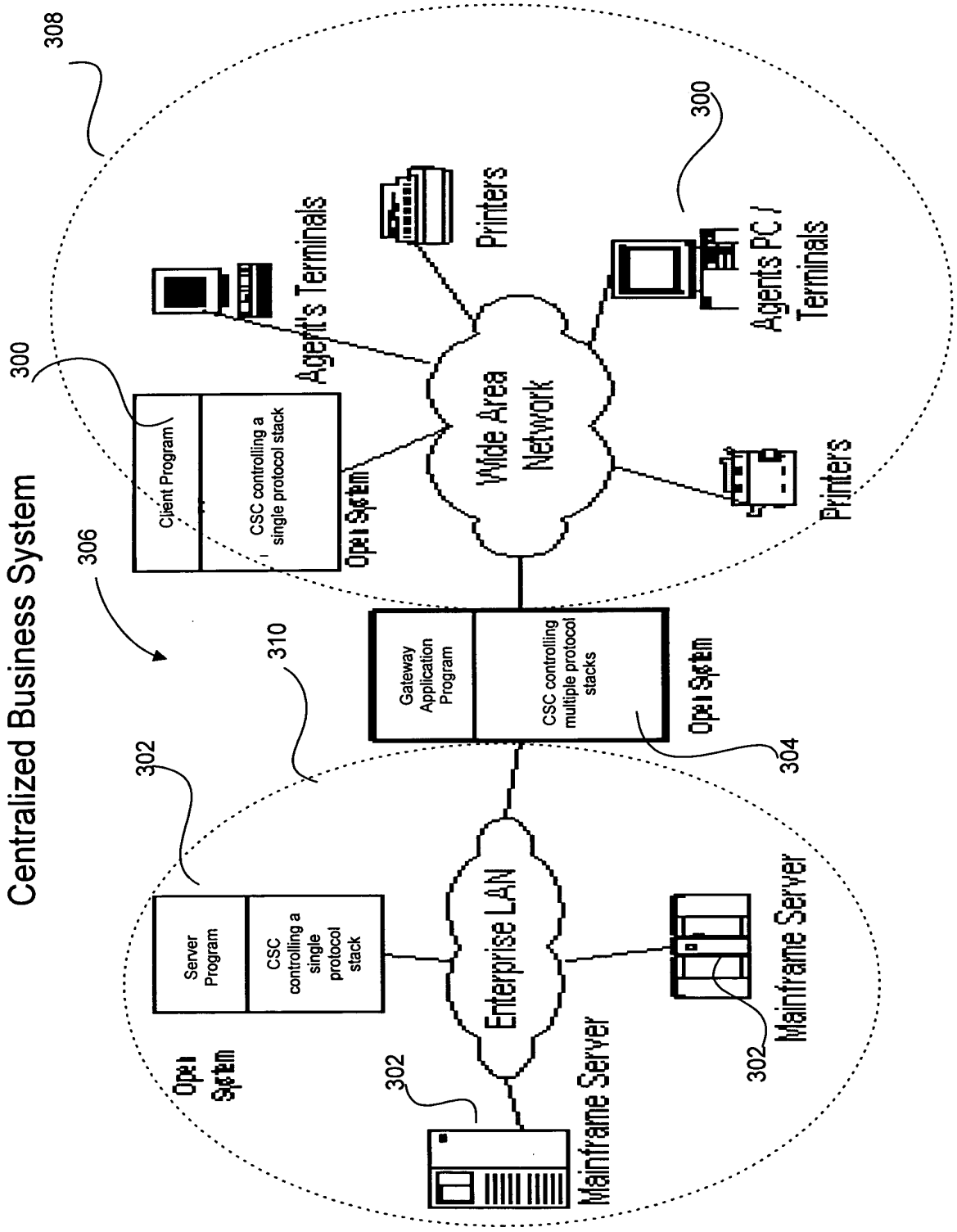
Centralized Business System
308
300
Agent's Terminals
Printers
Agents PC / Terminals
Printers
Wide Area Network
Client Program
CSC controlling a single protocol stack
Open System
306
310
Gateway Application Program
CSC controlling multiple protocol stacks
Open System
304
302
Server Program
CSC controlling a single protocol stack
Open System
Enterprise LAN
Mainframe Server
Mainframe Server
302
302

FIGURE 3

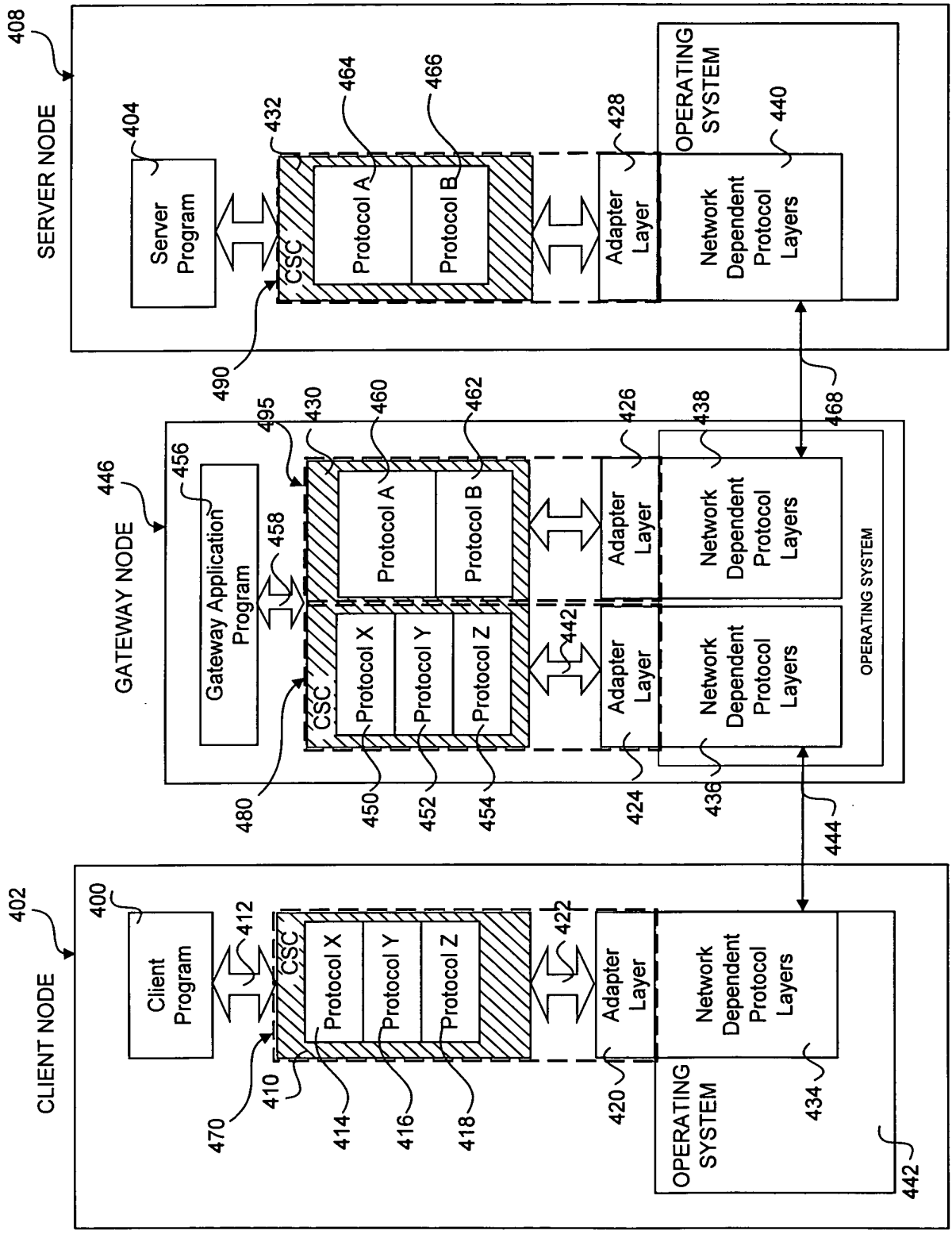
408
SERVER NODE
404
Server Program
432
CSC
464
Protocol A
466
Protocol B
428
Adapter Layer
OPERATING SYSTEM
440
Network Dependent Protocol Layers
490
468
446
GATEWAY NODE
456
Gateway Application Program
458
495
430
460
462
426
438
Protocol A
Protocol B
Adapter Layer
Network Dependent Protocol Layers
442
Protocol X
Protocol Y
Protocol Z
OPERATING SYSTEM
480
450
452
454
424
436
444
402
CLIENT NODE
400
Client Program
412
CSC
Protocol X
Protocol Y
Protocol Z
422
Adapter Layer
Network Dependent Protocol Layers
470
410
414
416
418
420
OPERATING SYSTEM
434
442

FIGURE 4

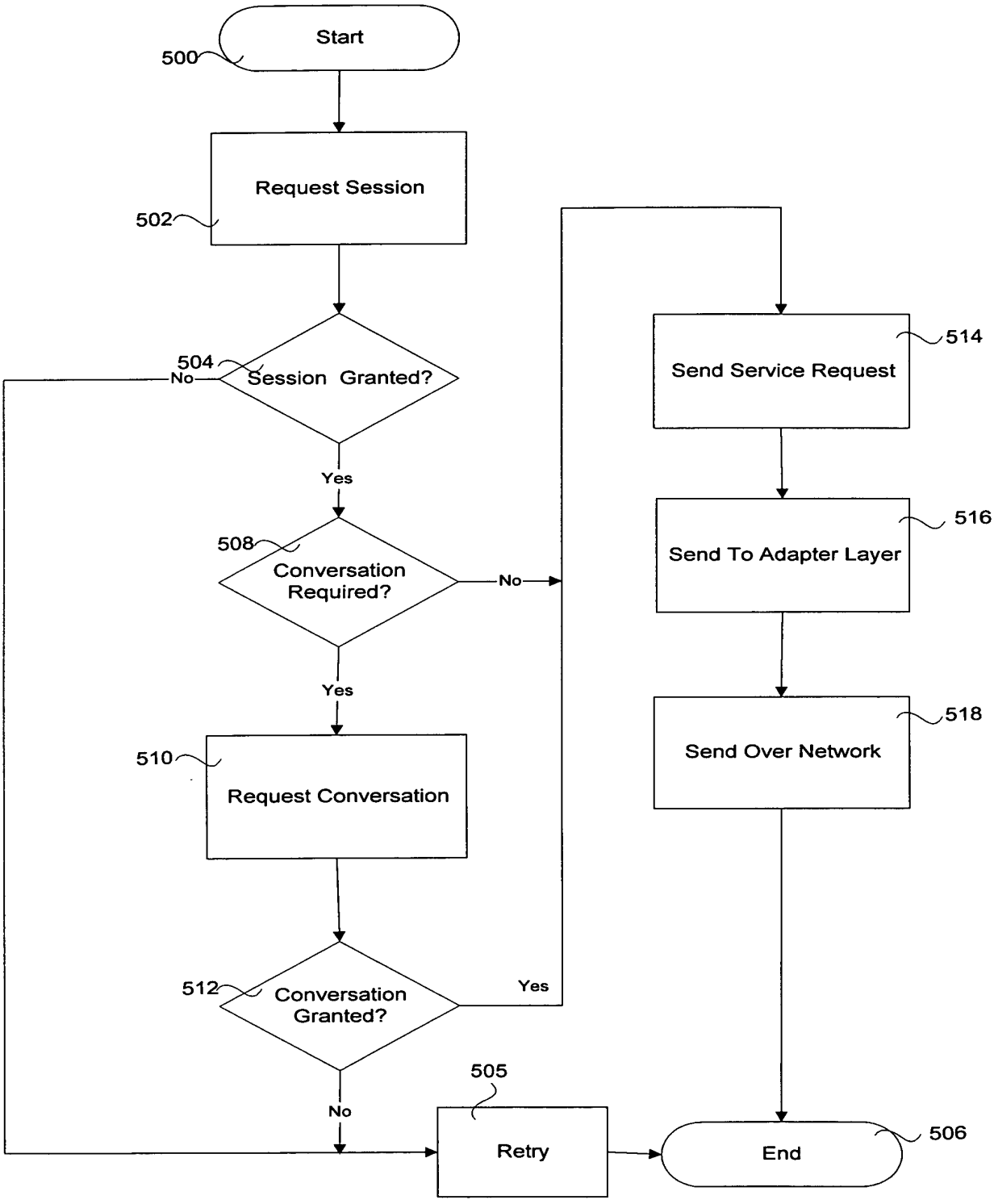
Start
500
Request Session
502
504
No
Session Granted?
Yes
508
Conversation Required?
No
Yes
510
Request Conversation
512
Conversation Granted?
Yes
No
505
Retry
514
Send Service Request
516
Send To Adapter Layer
518
Send Over Network
506
End

FIGURE 5

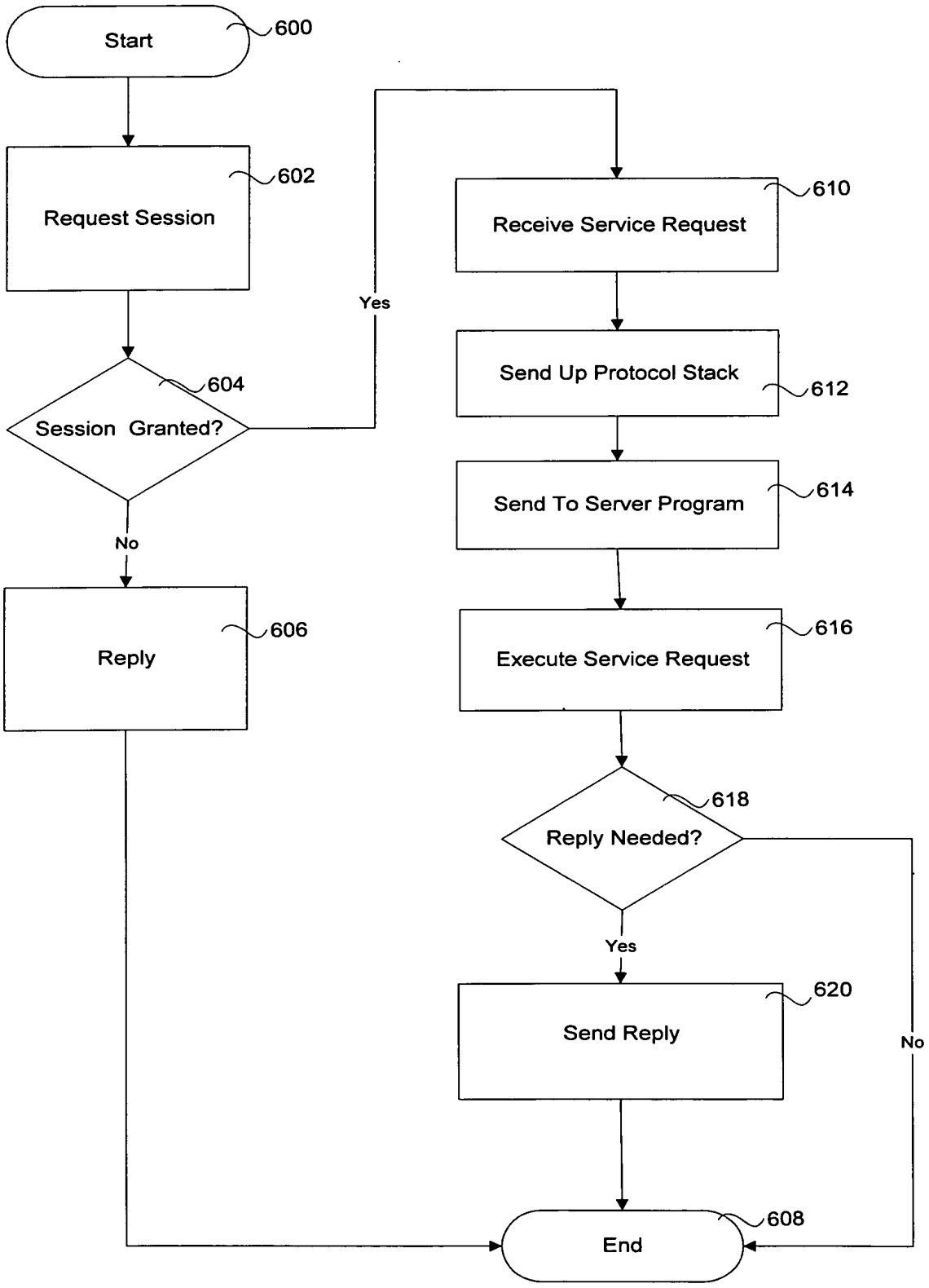
Start
600
Request Session
602
Session Granted?
604
Yes
No
Reply
606
Receive Service Request
610
Send Up Protocol Stack
612
Send To Server Program
614
Execute Service Request
616
Reply Needed?
618
Yes
No
Send Reply
620
End
608

FIGURE 6

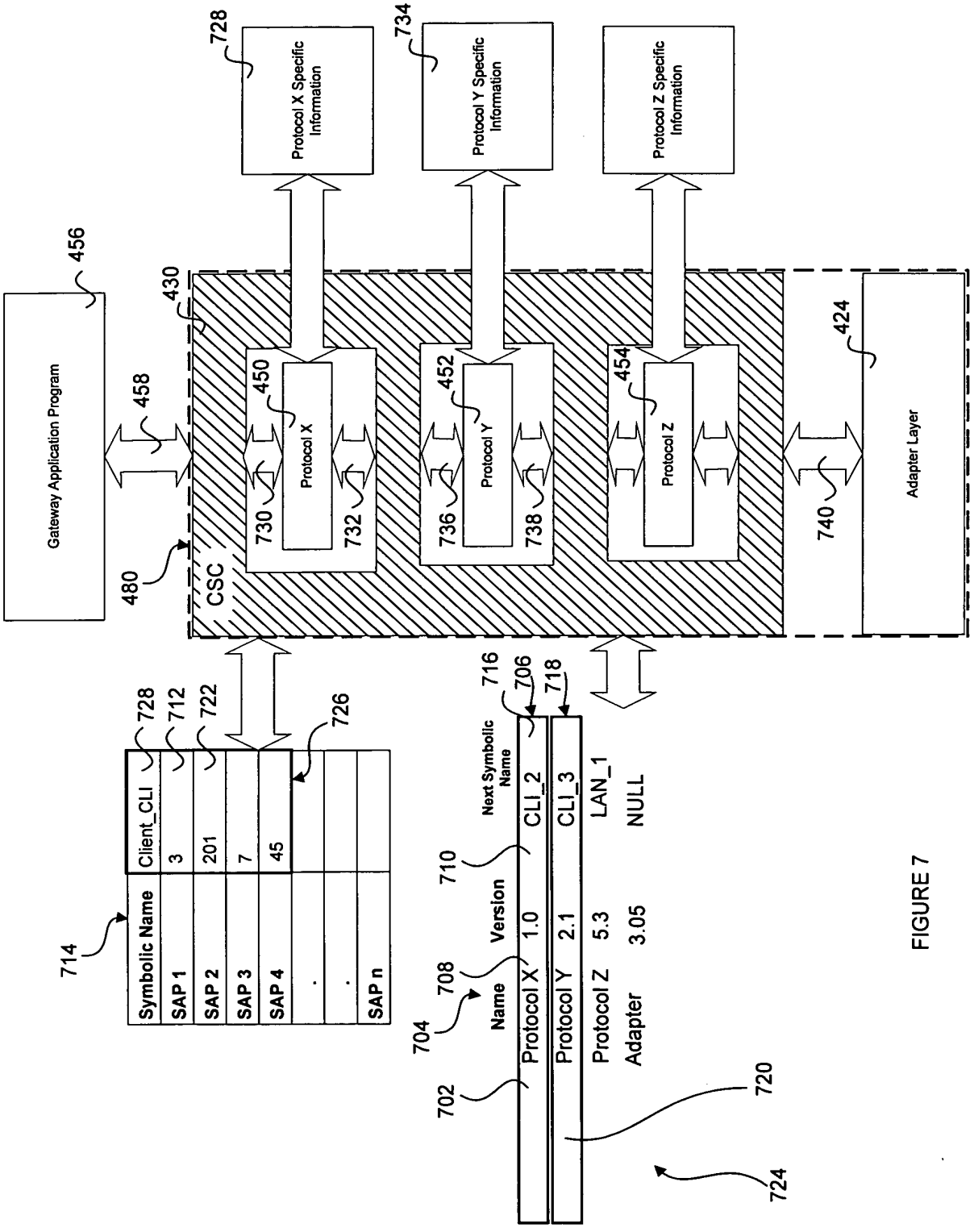
Protocol X Specific Information
Protocol Y Specific Information
Protocol Z Specific Information
728
734
456
430
424
Gateway Application Program
458
450
452
454
Protocol X
Protocol Y
Protocol Z
Adapter Layer
730
732
736
738
740
480
CSC
716
706
718
728
712
722
726
Next Symbolic Name
CLI_2
CLI_3
LAN_1
NULL
Client_CLI
3
201
7
45
710
Version
1.0
2.1
5.3
3.05
714
Symbolic Name
SAP 1
SAP 2
SAP 3
SAP 4
SAP n
708
Name
Protocol X
Protocol Y
Protocol Z
Adapter
704
702
720
724

FIGURE 7

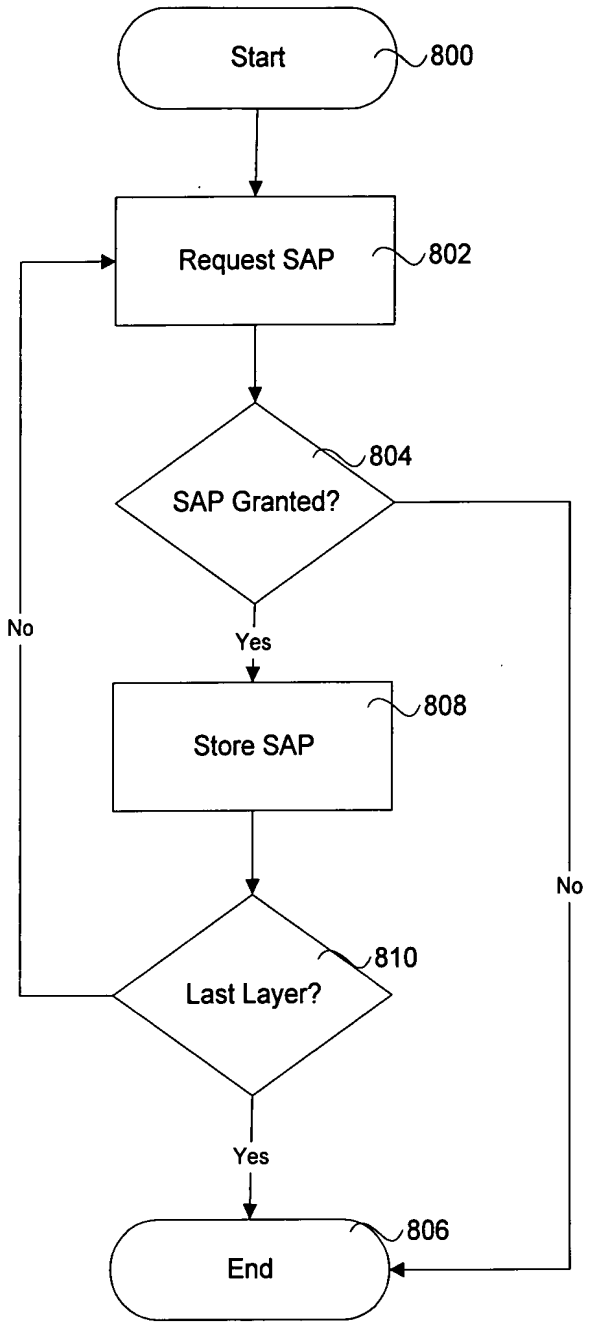

FIGURE 8A

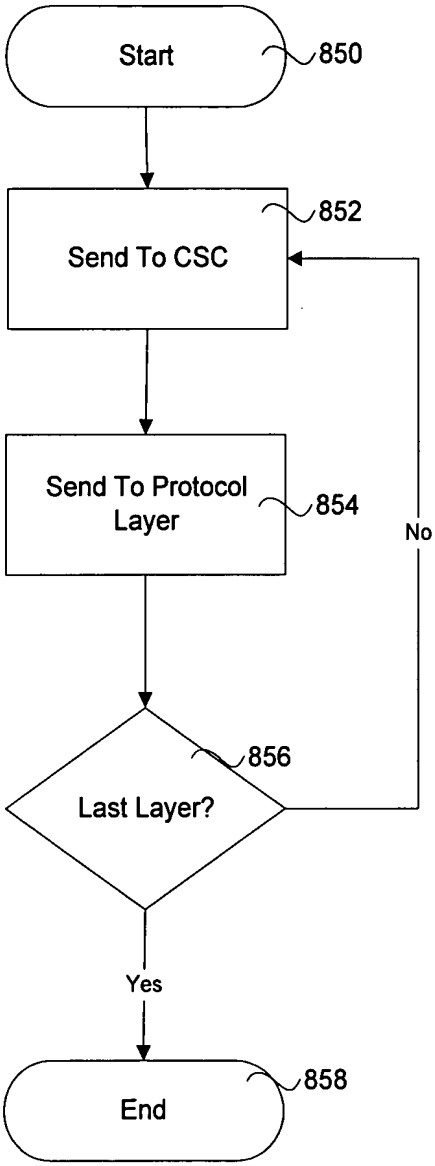

FIGURE 8B

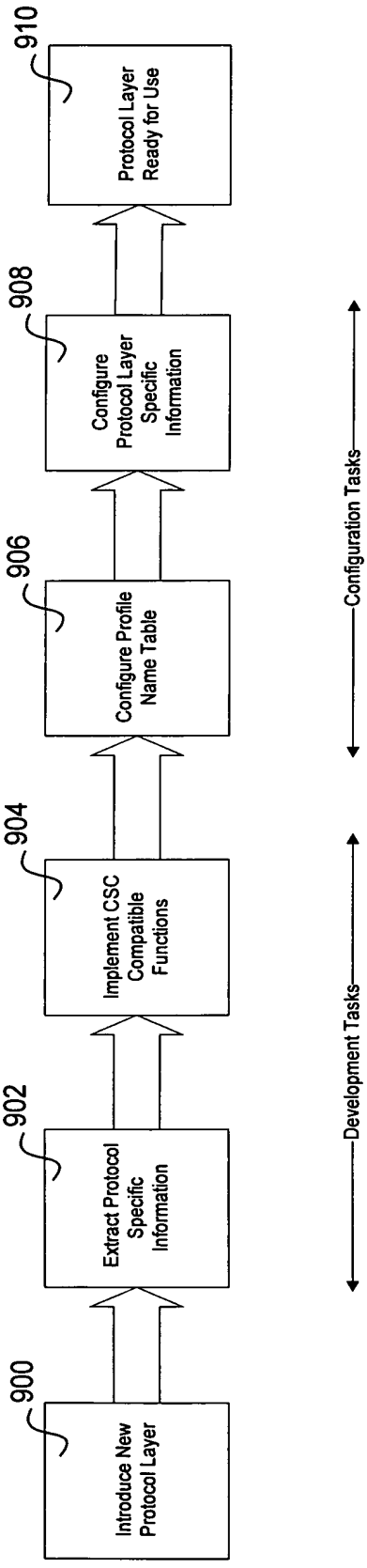
900
Introduce New Protocol Layer
902
Extract Protocol Specific Information
904
Implement CSC Compatible Functions
906
Configure Profile Name Table
908
Configure Protocol Layer Specific Information
910
Protocol Layer Ready for Use
Development Tasks
Configuration Tasks

FIGURE 9